

	Application No.	Applicant(s)
Notice of Allowability E	09/912,184	ISHIKAWA ET AL.
	Examiner	Art Unit
	Hai L. Nguyen	2816
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) of NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIC of the Office or upon petition by the applicant. See 37 CFR 1.313	ars on the cover sheet water (OR REMAINS) CLOSED in or other appropriate commits GHTS. This application is	ith the correspondence address n this application. If not included unication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the amendment filed or</u>	on 02/15/2005.	·
2. The allowed claim(s) is/are <u>1-10</u> .		
3. The drawings filed on 7/24/1 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have lnternational Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMETHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted in INFORMAL PATENT APPLICATION (PTO-152) which gives considered in the complex process of the priority documents have a complex priorit	been received. been received in Application suments have been received of this communication to file ENT of this application. Itted. Note the attached EX as reason(s) why the oath o	on No ed in this national stage application from the e a reply complying with the requirements AMINER'S AMENDMENT or NOTICE OF r declaration is deficient.
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on t	he drawings in the front (not the back) of
 DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F 	it of BIOLOGICAL MAT OR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
Attachment(s)		,
1. Notice of References Cited (PTO-892)	5. Notice of In	formal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	3), 7. ⊠ Examiner's	/Mail Date Amendment/Comment
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's	Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	MMO
	·	IMOTHY P. CALLAHAN SUPERVISORY PATENT EXAMINER

DETAILED ACTION

Response to Amendment

1. The amendment received on 2/15/2005 has been reviewed and considered with the following results:

As to the objections to the specification, Applicant's amendments have overcome the objections, as such; the objections have been withdrawn.

As to the objections to the drawings, Applicant's clarifications have overcome the objections, as such; the objections have been withdrawn.

As to the rejections to the claims, under 35 U.S.C. 112, 1st and 2nd paragraphs,

Applicant's amendments and clarifications have overcome the rejections, as such; the rejections have been withdrawn.

As to the prior art rejections to the claims. Applicant's arguments have been considered and found persuasive. Applicant's amendments and arguments, with respect to the previous prior art rejections mailed on 11/12/2004, have overcome the rejections, as such; the prior art rejections have been withdrawn. Therefore the case is found to be in allowance condition for the reasons as set for below.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

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Authorization for this examiner's amendment was given in a telephone interview with Mr. David E. Spaw on 4/08/2005.

3. The application has been amended as follows:

In the claims

Claim 10, line 1, after "claim", -- 6, -- has been added.

REASON FOR ALLOWANCE

4. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to disclose or fairly suggest a circuit (as shown in Fig. 1), and a method of use thereof, for detecting the amplitude of an alternating signal (S) in the form of a sinusoidal wave having a period fluctuation within a certain fluctuant range together with an amplitude fluctuation (A(t1) - A(t5) in instant Fig. 4) by having a very specific structural limitations as comprising a phase revising circuit (1, 21, 22) including a first and a second all pass filters (11, 12) for changing the alternating signal (S) to a first and a second phase-shifted signals ([S1], S2) with a phase delay difference of 90° therebetween within a frequency range corresponding to the fluctuant range of the period, and a sampling circuit (2) for sampling an amplitude of the first phase-shifted signal ([S1]) at a timing (t1 -t5) when the other (S2) has a phase angle of a certain value (0).

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai L. Nguyen whose telephone number is 571-272-1747 and

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Right Fax number is 571-273-1747. The examiner can normally be reached on Monday-

Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Timothy Callahan can be reached on 571-272-1740. The official fax phone number

for the organization where this application or proceeding is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

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should be directed to the receptionist whose telephone number is 571-272-1562.

6. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HLN

April 8, 2005